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IDENTIFIER:  
TITLE: VESSEL FOR SYNTHESIZING POSITIVE ELECTRODE  
ACTIVATING SUBSTANCE FOR CELL

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**INVENTOR-INFORMATION:**

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**ABSTRACT:**

PURPOSE: To synthesize uniform CuFeS<sub>2</sub> when Cu<sub>2</sub>S and FeS<sub>2</sub> are heated in an inert gaseous atmosphere to synthesize CuFeS<sub>2</sub> as a positive electrode activating substance for a cell contg. an org. electrolytic soln., by using the vessel of a specified shape in synthesis.

CONSTITUTION: When CuFeS<sub>2</sub> as a positive electrode activating substance for a cell contg. an org. electrolytic soln. is synthesized

from Cu<sub>2</sub>S and FeS<sub>2</sub>, 2mol FeS<sub>2</sub> is well mixed with 1mol Cu<sub>2</sub>S, charged into a synthesizing vessel, and heated to 600□700°C in an inert gaseous atmosphere to synthesize the desired CuFeS<sub>2</sub>. At this time, an inverted trapezoidal or bowl-shaped vessel inclined gently at 30□60° angle at the side part is used as the synthesizing vessel. Eliminated gaseous sulfur generated during the synthesis reaction separates easily from the reaction product, and synthetic CuFeS<sub>2</sub> having a uniform composition is obtd. without leaving unreacted starting materials.

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